## CSG Sand Lab Dry Screened Test: (a) Grading

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Cnwc-y-Saeson Production Plant
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The results of the sieve analysis are as shown on those of the following sieves which have the retained weight
recorded against them

| Sieve Size | Weight <br> Retained <br> $(\mathrm{mm})$ | \% | Retained | Passing | St Astier <br> Target <br> Grading |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BS. EN <br> Tolerance <br> $0 / 2$ |  |  |  |  |  |
| 14.000 |  | 0.0 | 100.0 | 100.0 |  |
| 10.000 | 0.0 | 0.0 | 100.0 | 100.0 |  |
| 8.000 |  | 0.0 | 100.0 | 100.0 |  |
| 6.300 | 0.0 | 0.0 | 100.0 | 100.0 |  |
| 5.000 |  | 0.0 | 100.0 | 100.0 |  |
| 4.000 | 0.0 | 0.0 | 100.0 | 100.0 | $100 / 100$ |
| $3.350^{*}$ |  | 0.0 | 100.0 | 100.0 |  |
| 2.800 | 0.2 | 0.1 | 99.9 | 100.0 | $98 / 100$ |
| 2.000 | 2.7 | 0.9 | 99.0 | 98.0 | $\pm 589 / 99$ |
| 1.180 | 8.4 | 2.8 | 96.2 | 94.0 |  |
| 1.000 | 4.1 | 1.4 | 94.9 | 92.0 | $\pm 2059 / 99$ |
| 0.600 | 20.0 | 6.7 | 88.2 | 82.0 |  |
| 0.500 | 18.0 | 6.0 | 82.2 | 75.0 | FP $55 / 100$ |
| 0.425 |  |  |  |  |  |
| 0.300 | 99.8 | 33.3 | 48.9 | 48.0 |  |
| 0.250 | 33.5 | 11.2 | 37.7 | 38.0 | $\pm 25 \quad 10 / 65$ |
| 0.212 | 34.2 | 11.4 |  |  |  |
| 0.150 | 53.0 | 17.7 | 8.6 | 18.0 |  |
| 0.125 | 13.6 | 4.5 | 4.1 | 10.0 |  |
| 0.075 | 11.6 | 3.9 | 0.2 | 0.0 |  |
| 0.063 | 0.4 | 0.1 | 0.1 | 0.0 | $0 / 3$ |
| 0.000 | 0.2 | 0.1 | 0.0 | 0.0 |  |
| Total | 299.7 | 100.0 |  |  |  |

Material Description : 0/2 Lime Mortar Sand for Smooth Fine Norma (exceeding 10mm thick) Finishing Coats of Render using Natural Hydraulic Lime NHLB

0/2 Plastering and Rendering Mortar Sand FP Cat 1 Category 1
PD 6682-3 : 2003 Tb1 B1
BS EN 13139 : 2013(E)
Material Source : F1 CB1 1000M CSG
Aggregate Type : Glacia
Sampling Point: Cnwc-y-Saeson
Age: Pleistocene
Sampled by : DGK

## For your information

Cardigan Sand \& Gravel Co. quarries a deposit that was laid down by an ancient lake fed by rivers flowing off the tip of the Teifi glacier. Our sands and aggregates are the result of disintegration of rock during transportation by the glacier. Our products, therefore, contain negligible amounts of shell and salt.

Our extracted materials pass through a rigourous system of scrubbers, screens, over-spill weirs, cyclones (prewash and dewatering) and classifiers. This allows us to carefully select particle sizes for optimum performance and also removes organic materials, clay, silt and mineral salts from the product.

NHLB is the name we give to our Sand for Smooth Fine Normal Finishing Coats using Natural Hydraulic Lime.
2.36 mm (or less) down to 0.075 mm particles may be used and the proportion retained on $0.150,0.125$ and 0.075 sieves should not exceed $20 \%$ in total.

Adapted from St Astier Natural Hydraulic Lime "Practical Guide to choosing Sands". E. \& O.E.




NOTE:- The \% material larger than 0.063 mm but smaller than 0.125 mm is recorded between the 0.063 and 0.125 grid lines, etc.
5 Grey Columns exceeding $10 \%=$ very well graded 4 Grey Columns exceeding $10 \%=$ well graded
3 Grey Columns exceeding $10 \%$ = less well graded
2 Grey Columns exceeding 10\% = poorly graded
1 Grey Columns exceeding $10 \%=$ nearly monogranular

[^0]
[^0]:    This information is a guide only and does not constitute a specification. There are a vast number of sands differing in grading and qualities.
    To be sure that a well graded sand is being used it is preferable that at least four grades form a substantial part of over $10 \%$ of the proposed sand.
    This sand has 3 grey columns in the size range above $10 \%$ indiciating a less well graded sand
    On site blending could improve this outcome - see Blending Programme ZBP4.NHLB 02 F1FF

